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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/334,104	06/16/1999	GALEN C. HUNT	MS1-354US	4938	
22801	7590 09/04/2002				
LEE & HAY		EXAMINER			
421 W RIVER SPOKANE, W	SIDE AVENUE SUITE /A 99201	ANYA, CHARLES E			
			ART UNIT	PAPER NUMBER	
			2151		
		DATE MAILED: 09/04/2002			

Please find below and/or attached an Office communication concerning this application or proceeding.

					4			
Office Action Summary		Application	on No.	Applicant(s)				
		09/334,10	4	HUNT ET AL.				
		Examiner		Art Unit				
		Charles E	Anya	2151				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
THE I - External after - If the - If NC - Failu - Any I	ORTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. It is period for reply specified above is less than thirty (30) days, a reperiod for reply is specified above, the maximum statutory perior to reply within the set or extended period for reply will, by state reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no evereply within the statuod will apply and will tute, cause the apple.	int, however, may a reply be tim story minimum of thirty (30) days I expire SIX (6) MONTHS from ication to become ABANDONEI	nely filed s will be considered timely the mailing date of this co O (35 U.S.C. § 133).				
1)⊠	Responsive to communication(s) filed on 0	3 October 200	<u>01</u> .					
2a) <u></u> □	This action is FINAL . 2b)⊠ This action is non-final.							
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims	or an partie at	,,					
4)⊠	Claim(s) 1-41 is/are pending in the applicat	ion.						
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	5) Claim(s) is/are allowed.							
6)⊠	6)⊠ Claim(s) <u>1-41</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
	Claim(s) are subject to restriction and	d/or election re	equirement.					
· · · _	ion Papers	•						
	The specification is objected to by the Exami		abia stad ta bu tha Fuer	!				
10)[The drawing(s) filed on is/are: a) ac		•					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12) The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. §§ 119 and 120								
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
-	☐ All b) ☐ Some * c) ☐ None of:		,	, , , , ,				
	1. Certified copies of the priority docume	ents have beer	n received.					
	2. Certified copies of the priority documents have been received in Application No							
* 5	Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
_	Acknowledgment is made of a claim for dome		·		application)			
_a) \square The translation of the foreign language $ $	provisional ap	plication has been rec	eived.	apphoation).			
	Acknowledgment is made of a claim for dome	estic priority ur	nder 35 U.S.C. §§ 120	and/or 121.				
Attachmen	<i>j</i> .		∆ □ 1-7	(DTO 440) D	- •			
2) Notice	ee of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s			(PTO-413) Paper No(: Patent Application (PTC				

Art Unit: 2151

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1 23 and 29 41 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Pat. No. 5,379,432 to Orson.

As to claim 29, Orton teaches an Operating System Application Interface (Wrapper 128, wrapper 129), a Computer-Readable Medium (Ram 108, Data Storage Device 120, 122, Col. 6, Ln. 41 – 68), a Plurality of Object Interfaces (Wrapper 128, wrapper 129, API Interfaces, Col. 21, Ln. 21 – 24), One or More Methods ("...a method...", Col. 8, Ln. 16 – 50) and Call Functions ("...procedural function call...", Col. 34 – 50).

As to 30, Orton teaches Object interfaces arranged in groups in accordance with the types of objects with which their operation is associated ("...wrapper class library 402...", Col. 21, Ln. 21 – 24).

As to claim 31, Orton teaches the method of some of the interfaces that are arranged in accordance with whether they create an object (Step 208, "...the method...", Col. 8, Ln. 34 - 49, Note, the method that includes a procedural function call is used provide services to the application. These services can be thread services (Col. 12, Ln. 10 - 15).

Art Unit: 2151

As to claim 32, Orton teaches the method of some of the interfaces that are arranged in accordance with whether they do not create an object (Col. 12, Ln. 14 – 15).

As to claim 33, Orton teaches the method of some of the interfaces that are arranged in accordance with whether they operate upon an object ("...address space...", Col. 12, Ln. 35 – 46).

As to claim 34, see the rejection of claim 24.

As to claim 35, see the rejection of claim 25.

As to claim 36, Orton teaches a Plurality of programming Objects ("...wrapper class library 402, Col. 21, Ln. 21 – 24), Interfaces ("API interfaces...", Col. 21, Ln. 21 – 24), Operating System Resource ("threads, tasks, virtual memory, interprocess communication IPC, Scheduling, synchronization, fault processing and host/processor set processing, Col. 7, Ln. 31 – 34), programming object configured to be called either directly or indirectly by an application (Wrapper 128, Col. 6, Ln. 41 – 45) and the methods are configured to call operating system functions responsive to being called directly or indirectly by an application (Step 208, Col. 8, Ln. 34 – 49).

As to claim 37, see the rejection of claim 6.

As to claim 38, see the rejection of claim 7.

As to claim 39, see the rejection of claim 23.

As to claim 40, see the rejection of claim 26.

As to claim 41, claim 36 meets claim 41 except for calling a programming object interface and calling an operating system function with a method of the programming object.

Art Unit: 2151

Orton teaches calling a programming object interface (Wrapper 128, Col. 6, Ln. 41 – 45) and calling an operating system function with a method of the programming object (Step 210, Col. 8, Ln. 47 – 49).

As to claim 1, Orton teaches Criteria ("...services...", Col. 7, Ln. 31 – 37), factoring the functions into one or more groups based upon the criteria (Threads, Tasks, Virtual Memory, Interprocess Communication Scheduling, Synchronization, Fault Processing and Host/Processor set processing, Col. 7, 31 – 37), an Operating System (Operating System 114) and associating groups of functions with programming objects that have data and methods ("...class library 402...", Col. 7, Ln. 35 – 37, Code Library 110, Col. 6, Ln. 58 – 68, Col. 7, Ln. 1 – 12).

As to claim 2, Orton teaches Interfaces (Wrapper 128, Wrapper 129, Col. 6, Ln. 41 – 57).

As to claim 3, see the rejection of claim 26.

As to claim 4, see the rejection of claim 24.

As to claim 5, a Hierarchy of object interfaces (Task Classes 404, Thread Classes 406 Col. 7, Ln. 38 – 48, Threads Col. 11, Ln. 25 –29)

As to claim 6, Orton teaches a Plurality of Programming Objects (Step 208, Note, in the process of translating to a procedural functional call from object-oriented statement it is inherent to instantiate the objects) and a Process Boundary (Application 130A, Operating System 114. Note, the process boundary is between application 130A and Operating System 114).

Art Unit: 2151

As to claim 7, Orton is silent with respect to instantiating a plurality of programming objects across a machine boundary. However, it would have been obvious to one of ordinary skill to make this modification to provide objects that communicate across machine boundary.

As to claim 8, Orton teaches the criteria based at least in part, on the manner in which particular function behaves ("...executable entity...", Col. 11 Ln. 25 – 35, Task, Col. 12, Ln. 35 – 67).

As to claim 9, Orton teaches consideration of the type of operating system resources that are associated with the operation of a function (Step 210, Col. 8, Ln. 43 - 49).

As to claim 10, Orton teaches consideration of whether a particular function creates an operating system resource (Col. 12, Ln. 10 – 15).

As to claim 11, Orton teaches consideration of whether a particular function operates upon an operating system resource (Col. 12, Ln. 40 – 44).

As to claim 12, see the rejection of claims 8 - 11.

As to claim 13, see the rejection of claims 8 - 11.

As to claim 14, Orton teaches a Plurality of operating system functions (Threads, Tasks, Col. 7, 31 – 37), First Group ("...task...", Col. 11, Ln. 26 – 29), First Criteria (Col. 12, Ln. 40 – 42), Sub-Group (Col. 11, Ln. 26 – 29), Second Criteria (Col. 11, Ln. 25 – 67), assigning each sub-group to its own programming object interface (Wrapper 128, Col. 9, Ln. 25 – 31, Col. 7, Ln. 35 – 37, Col. 6, Ln. 41 – 67).

Art Unit: 2151

As to claim 15, Orton teaches the first criteria based upon the type of resource that is associated with an operation of a function ("...threads...", "...address space...", "...port name space...", Col. 12, Ln. 35 – 44).

As to claim 16, Orton teaches the second criteria based upon the nature of an operation of a function on a particular resource ("...executable entity...", Col. 11, Ln. 25 – 35).

As to claim 17, Orton teaches nature as having concerns as to whether a function creates a resource (Col. 12, Ln. 10 – 14).

As to claim 18, Orton teaches nature as having concerns as to whether a function does not create a resource (Col. 12, Ln. 14 – 17, Note, a terminated thread does implicitly not create a resource).

As to claim 19, see the rejection of claims 15 - 16.

As to claim 20, see the rejection of claim 24.

As to claim 21, see the rejection of claim 5

As to claim 22, see the rejection of claim 6.

As to claim 23, see the rejection of claim 6-7.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application

Art Unit: 2151

by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

4. Claims 24 - 28 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Pat. No. 6,144,377 to Oppermann et al.

As to claim 24, Oppermann teaches a Plurality of operating system functions ("...a number of functions...", Col. 8, Ln. 63 – 67), Interfaces Groups (Dialog Interface Class 602, Col. 7, Ln. 42 – 63, "...user interface element...", "...IAccessible interface...", Col. 8, Ln. 63 – 67), Interface Sub-Group (Dialog Interface Class, Edit Interface Class, Button Interface, Col. 9, Ln. 26 – 30, Col. 9, Ln. 50 – 67), a Handle ("...window handle...", Col. 9, Ln. 14 – 49), a Resource ("...window...", Col. 8, Ln. 24 – 29) and organizing the interface sub-groups so that at least one of the interface sub-groups inherits from at least one other of the interface of the interface sub-groups ("...parent and grandparent...", Col. 23, Ln. 48 – 57, Note, This is to show that interface sub-group can inherit from other interface sub-group).

As to claim 26, Oppermann teaches COM Objects (OLE Interfaces, Col. 10, Ln. 8 – 10).

As to claim 25, see the rejection of claim 5.

As to claim 27, Oppermann teaches a Handle (Col. 8, Ln. 26 – 29).

Art Unit: 2151

As to claim 28, see the rejection of claims 25 and 27.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure.

U.S. Pat. No. 5,097,533 to Burger et al.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Charles E Anya whose telephone number is (703) 305-

3411. The examiner can normally be reached on M – F (First Friday Off) from 8:30 am

to 5:30 pm.

The fax phone number for the organization where this application or proceeding

is assigned is (703) 746-7239.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 305-

3900.

Charles E Anya Examiner

Page 8

Art Unit 2151

ST. JOHN COURTENAY III PRIMARY EXAMINER